Smog duct filter

MOCarz

Description

The smog filter is designed for effective filtration of the so-called particulate matter. The PM2.5 and PM10 particles are the main component of smog, which have an optical diameter of 2.5 and 10 µm (micrometers). The filtration efficiency (removal) of PM2.5 particles reaches up to 73%, and PM10 particles up to 81% (according to tests carried out with a dust particle measuring device). The smog duct filter consists of a sealed filter box and two filters: prefilter and smog filter. It is recommended to install a smog filter on the supply ducts in domestic ventilation and heat recovery systems.

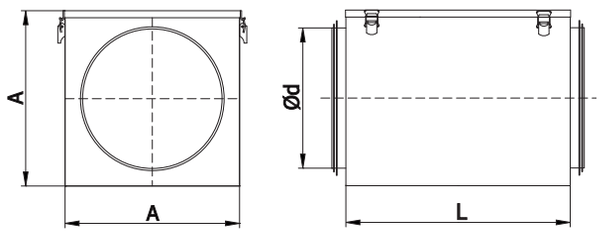
Filter replacement (filter set for 1 filter box):
FSBQ-I3 - prefilter
MOCarz-W - proper filter

Available materials — Product code examples
MOCarz-...- galvanized steel sheet

Product code example
Product code **MOCarz - 160**

type
Ød

Dimensions



Kod	Ød [mm]	A [mm]	L [mm]
MOCarz-100	100	160	290
MOCarz-125	125	180	290
MOCarz-160	160	210	290
MOCarz-200	200	250	290
MOCarz-250	250	300	290
MOCarz-315	315	360	290

Air quality index

The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act amongst them particle pollution (also known as particulate matter).

Air quality index	PM2,5 [µg/m³]	PM10 [µg/m³]
Very good	0-12	0-20
Good	13-36	21-60
Moderate	37-60	61-100
Unhealthy for sensitive groups	61-84	101-140
Unhealthy	85-120	141-200
Very unhealthy	>120	>200

The measurements carried out (by ALNOR) indicate that the installation of the MOCarz filter allows to achieve at least a good air quality level for the supply air. (photo of the meter) The filtration result may be different for more polluted areas.

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Air quality level	*Cautionary statement*
Very good	Air quality is very good, air pollution does not pose a threat to health, very favorable conditions for any outdoor activity, without limitations.
Good	Air quality is considered satisfactory, and air pollution poses little or no risk. The outdoor activity can be carried out without limitations.
Moderate	Air pollution can have health effect for sensitive groups (e.g. sick people, the elderly, pregnant women and young children). Moderate conditions for outdoor activities.
Unhealthy for sensitive groups	Air quality is sufficient, air pollution is a health hazard (especially for the sick, elderly, pregnant women and small children) and may have negative health effects. Consider restricting (shortening or staggering over time) outdoor activities, especially if this activity requires prolonged or increased physical activties, especially if this activity requires prolonged or increased physical activity.
Unhealthy	Air quality is bad, the sick and the elderly, pregnant women and young children should avoid being outdoors. The remaining population should minimize any physical activity in the open air - especially requiring prolonged or increased physical exertion.
Very unhealthy	Air quality is very bad and has a negative impact on health. Sick and elderly people, pregnant women and young children should absolutely avoid being outdoors. The remaining population should limit being in the open air to the necessary minimum. All physical activities outside are discouraged. Long-term exposure to substances in the air increases the risk of changes, among others in the respiratory, cardiovascular and immune systems.

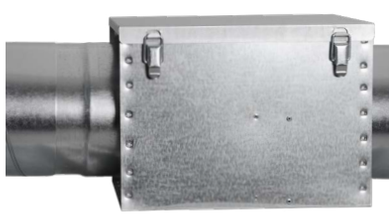
Assemebly

In the case of the filter box installation in the existing ventilation system, it is recommended to use the SMSFL coupling. The diameter of the filter should match the supply duct diameter and then follow instructions below (min. 50 cm duct section):

1. Cut off 38 cm long duct section.

2. Insert SMSFL coupling into the duct.

3. Install the filter box on the opposite duct hole.



4. Insert the SMSFL coupling. Use WGO self-drilling screws to secure the installation.

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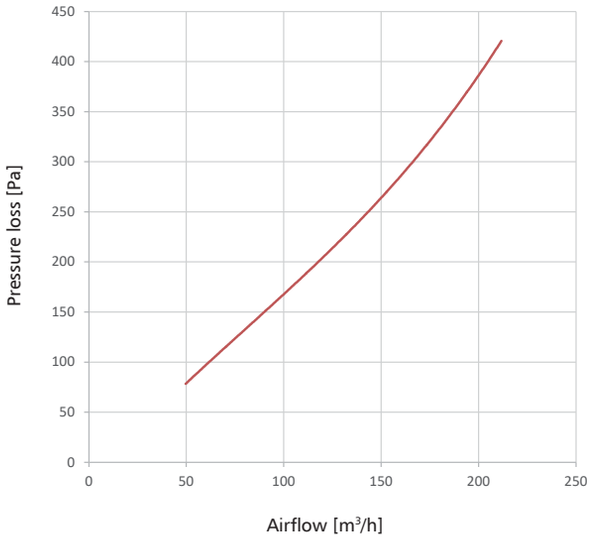
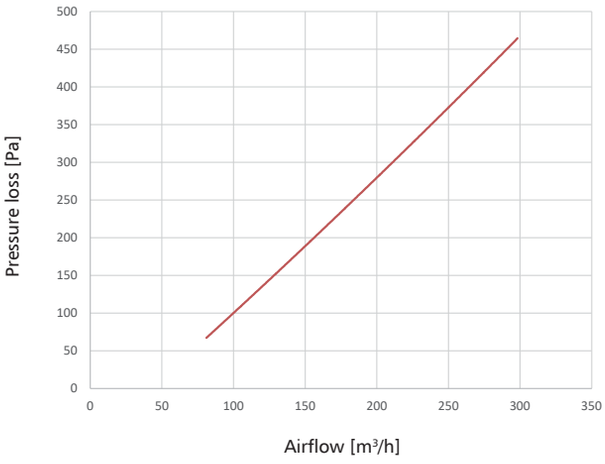
Technical data

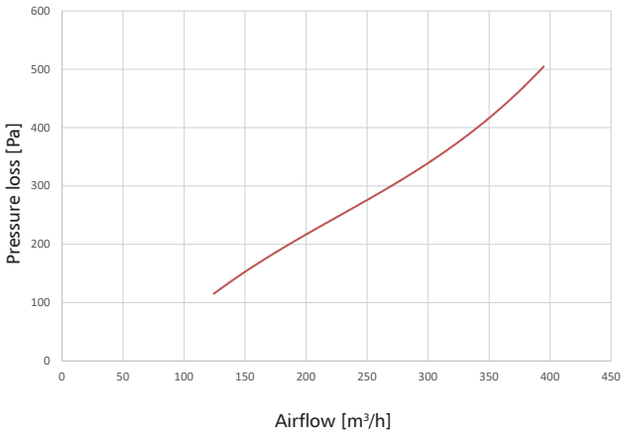
Pressure loss chart for **MOCarz-100 filter**



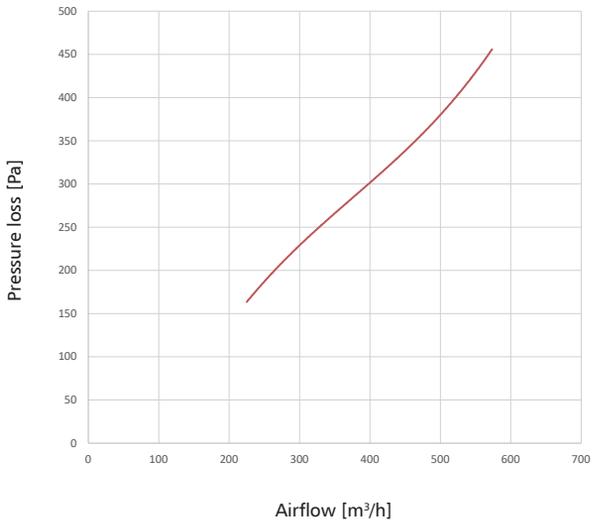
Pressure loss chart for **MOCarz-125 filter**



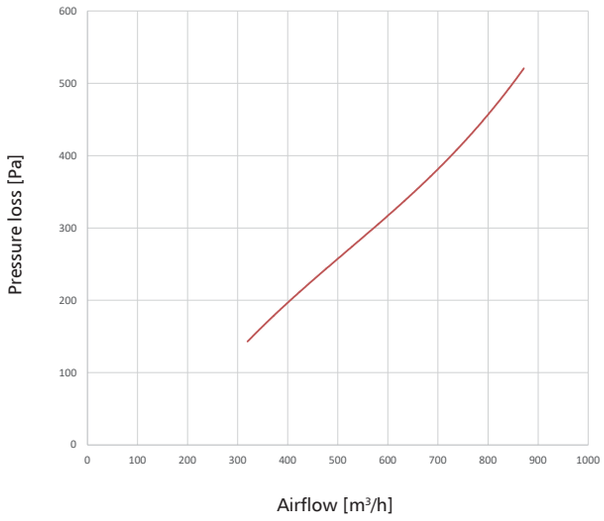
Pressure loss chart for **MOCarz-160 filter**



Pressure loss chart for **MOCarz-200 filter**



Pressure loss chart for **MOCarz-250 filter**



Pressure loss chart for **MOCarz-315 filter**